# **BEST AVAILABLE COPY**

### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



### 

(43) International Publication Date 1 April 2004 (01.04.2004)

PCT

(10) International Publication Number WO 2004/027786 A3

(51) International Patent Classification7: E21B 43/10

(21) International Application Number:

PCT/US2003/025707

(22) International Filing Date: 18 August 2003 (18.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/412,196

20 September 2002 (20.09.2002) U

(71) Applicant (for all designated States except US); ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A Park Row. Houston, TX 77084 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): COSTA, Scott [US/US]; 2011 Willow Point, Kingwood, TX 77330 (US).

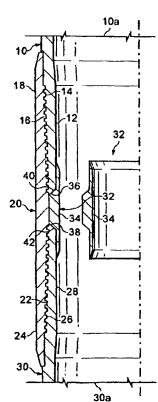
RING, Lev [US/US]; 14126 Heatherhill Place. Houston, TX 77077 (US). MENCHACA, "Jose [US/US]; 9800 Pagewood Lane, Number 210. Houston, TX 77042 (US).

- (74) Agent: MATTINGLY, Todd; Haynes and Boone, Ll.P. 901 Main Street, Suite 3100. Dallas, TX 75202-3789 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FL GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: PROTECTIVE SLEEVE FOR EXPANDABLE TUBULARS

(57) Abstract: A protective sleeve (20) for expandable tubulars (10, 30).



## BEST AVAILABLE COPY

#### 

ES. FI, FR, GB, GR, HU, HE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

- of inventorship (Rule 4.17(iv)) for US only

#### Published:

with international search report

- (88) Date of publication of the international search report: 10 September 2004
- (15) Information about Correction: Previous Correction: see PCT Gazette No. 24/2004 of 10 June 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

### BEST AVAILABLE COPY

document member of the same patent family

Date of mailing of the international search report 2 3 JUN 2004

Zakiya N. Walker V Horking

Telephone No. (703) 308-2168

International application No. INTERNATIONAL SEARCH REPORT PCT/US03/25707 CLASSIFICATION OF SUBJECT MATTER IPC(7) : E21B 43/10 US CL : 166/207,380,242.6 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/206,207,242.1,242.6,380-382 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category \* US 4,388,971 A (PETERSON) 21 June 1983 (21.06.1983), see entire document, 1-25 especially Figs. 1A-2D. US 6,516,880 B1 (OTTEN et al.) 11 February 2003 (11.02.2003), see entire document, 1-8 A especially Figs. 1-24. US 6,5654,875 B1 (BULLOCK) 20 May 2003 (20.05.2003), see entire document, 9-25 especially Fig. 1. Further documents are listed in the continuation of Box C. See patent family amex. later document published after the international filing date or priority Special categories of cited documents: date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance •xdocument of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step earlier application or patent published on or after the international filing date -Bwhen the document is taken alone document which may throw doubts on priority claim(s) or which is cited to "Y" establish the publication date of another citation or other special reason (as document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination specified) being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other means

\*&\*

Authorized officer

Form PCT/ISA/210 (second sheet) (July 1998)

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

priority date claimed

22 Jamuary 2004 (22.01.2004)

Facsimile No. (703) 305-3230

document published prior to the international filing date but later than the

Date of the actual completion of the international search